WATER CAPACITY FOR DOMESTIC HOT WATER SUPPLY SYSTEMS

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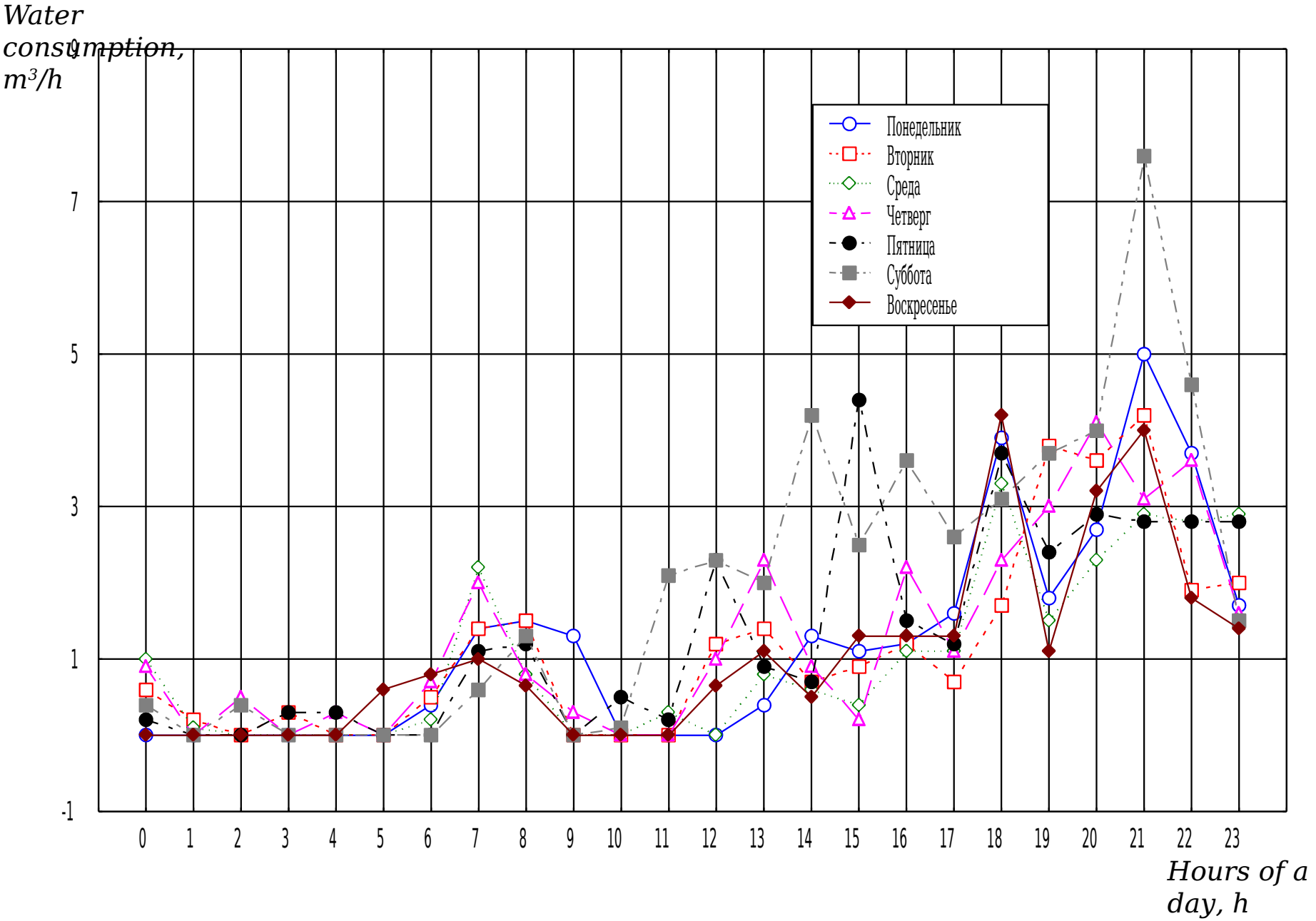
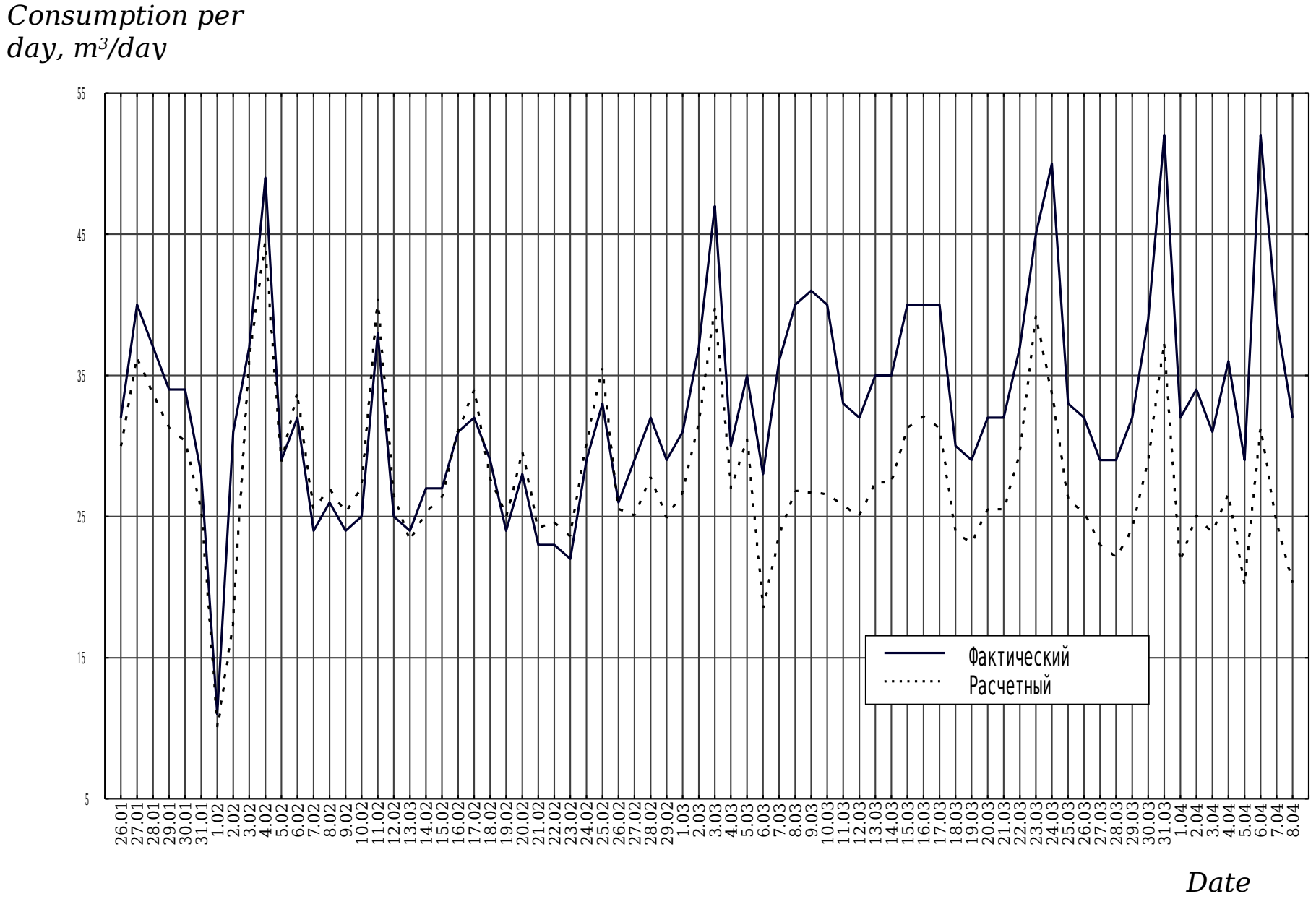
Hot water consumption per hour during the day

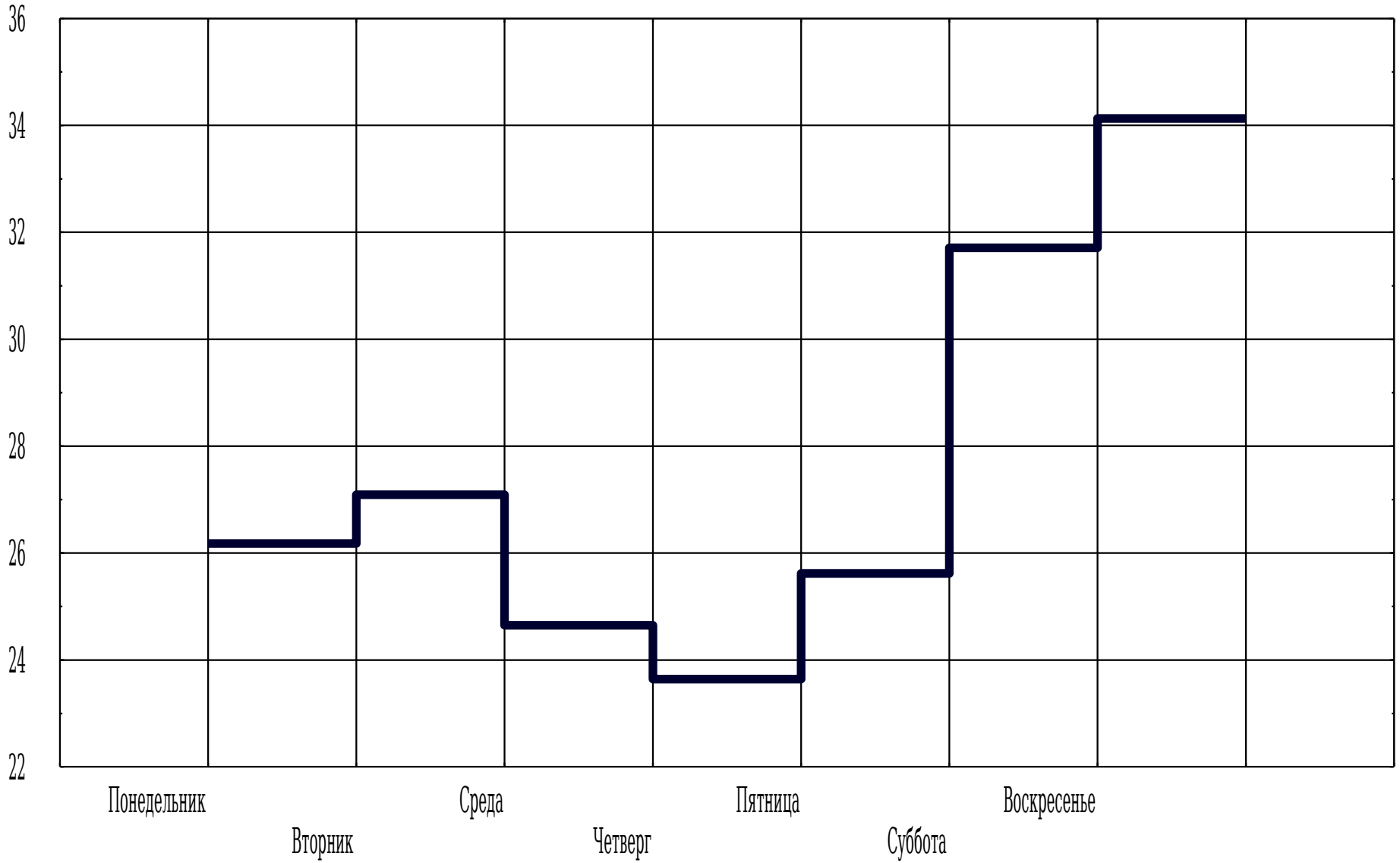


HOT WATER CONSUMPTION PER DAY DURING THE OBSERVATION PERIOD

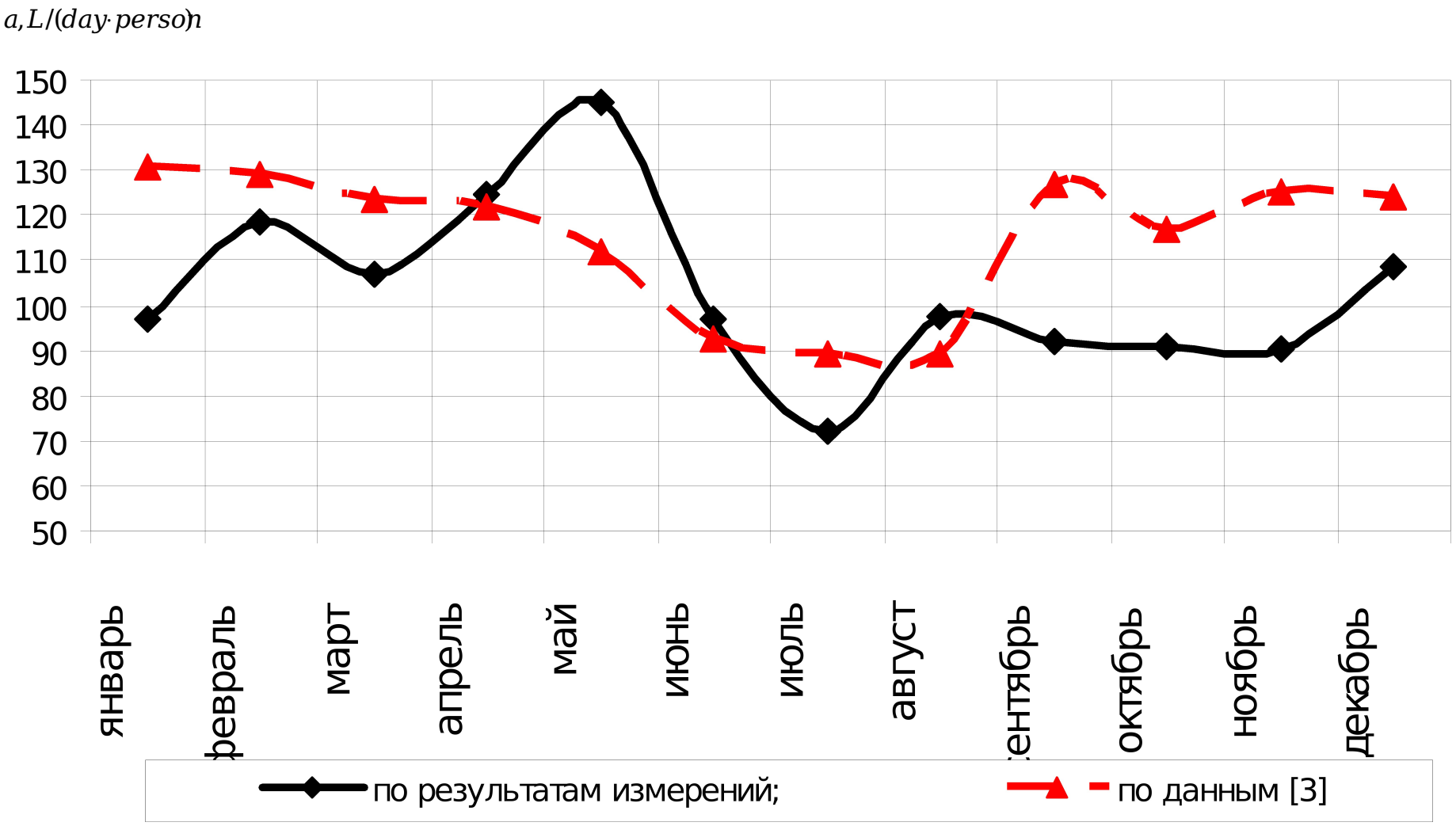


HOT WATER CONSUMPTION PER DAY ON DEFINITE DAYS OF THE WEEK

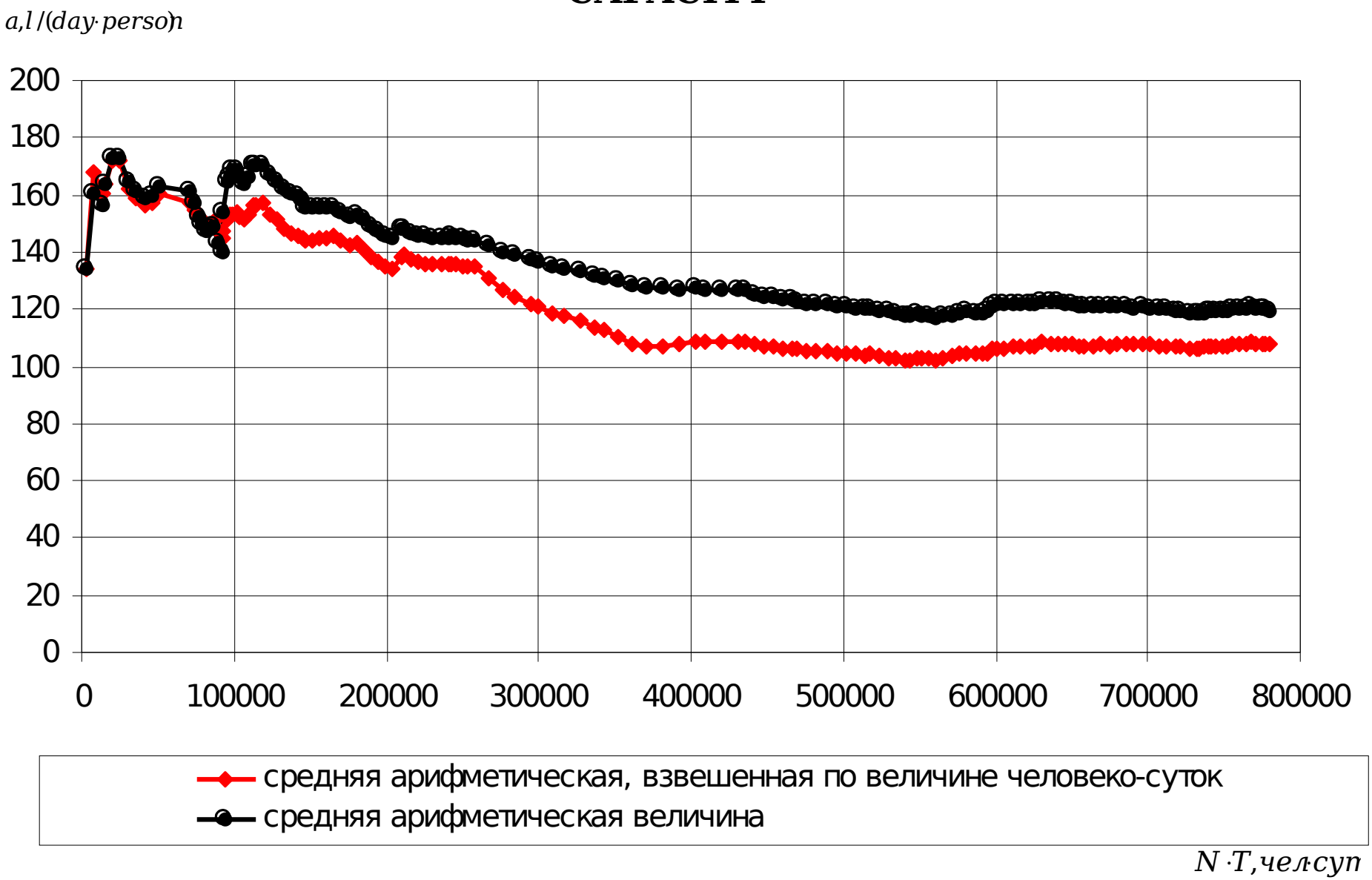
Consumption per day, m3/day



CHANGE OF HOT WATER CAPACITY DURING THE YEAR



DEPENDENCE OF SPECIFIC WATER CONSUMPTION PER CAPITA OF THE NUMBER OF MENS-HOURS OF WATER CAPACITY



DESIGN REGIME OF WATER CAPACITY

$$\overline{Q_{\Sigma}} = T^{K}$$

$\overline{Q_{\Sigma}}$ - water capacity measured in relative units during T some time

T - time measured in shares of the whole period of water capacity

$$K = K_{X\%} = \frac{Q_{\div X\%}}{\overline{Q}_{ñð\div}}$$

$K_{X\%}$ - general hour irregularity factor with X% guarantee;

$Q_{\div X\%}$ - water consumption per hour with X% guarantee

$Q_{ñð\div}$ - average water consumption per hour for hot water supply

$$Q_{\Sigma} = Q_{ñð\div} \cdot K \cdot T^{K-1}$$

Water capacity chart